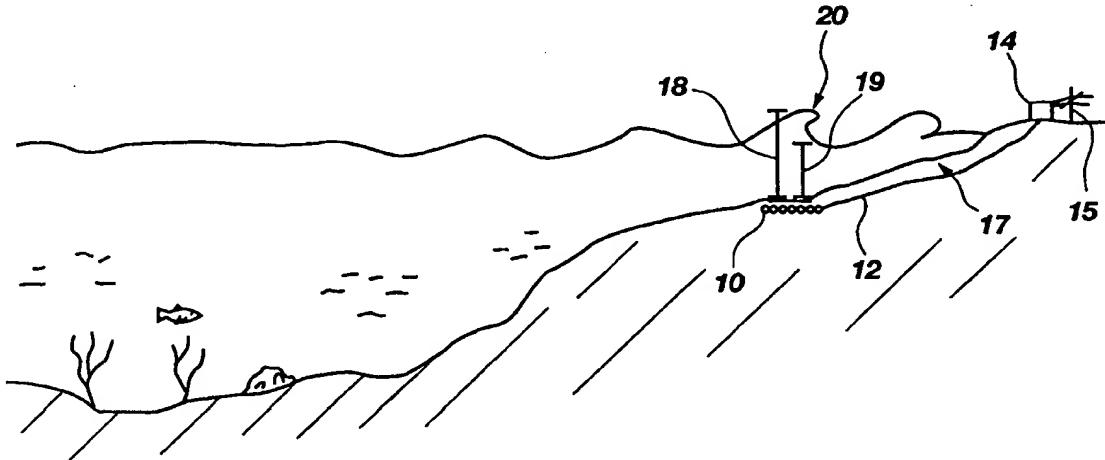




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(54) Title: APPARATUS FOR CONVERTING OCEAN WAVE MOTION TO ELECTRICITY



(57) Abstract

A power transfer system for converting recurring wave movement within the ocean to electrical energy. The system comprises pressure sensing structure such as a pressure transducer (10) or combination movable magnet and coil (50), positioned below water level and at a location (20) of wave movement for (i) registering changes in height of water (18 and 19) above the pressure sensing structure (10, 50) and (ii) providing electrical power output corresponding to changes in gravity force associated with the changes in the height of water. A transfer medium (12) is coupled at one end to the pressure sensing structure and extends at a second end to a shore location. A power receiving device such as a bank of storage batteries (14) or electrical load is coupled to the transfer medium at the shore location for receiving the power output from the transfer medium and for processing the power for use.